DEVELOPMENT OF GEOGRAPHIC INFORMATION SYSTEM FOR REGIONAL PLANNING (RTRWp) RESULT OF EAST JAVA PERIOD 2009 – 2029 AND LANDCOVER EVALUATION

Name        : Dian Octavia Sudiarti
NRP         : 3506 100 047
Department  : Geomatics Engineering
Supervisor  : Dr. Ing. Ir. Teguh Hariyanto, M.Sc

Abstract

East Java has a strategic potence to supports national economic development. Various natural resources like agriculture, forestry, maritime and fishery, ranch, farm, and also mining. Those plentiful natural resources not only give economic contribution for society but also have beautiful scenery that support tourism. Regional plan arrangement of East Java during 2009 – 2029 is an optimalizing way of the whole potencies belong to East Java, so that will indirectly affect landuse pattern.

Regional Planning of East Java for 2009 – 2029 period refers to UU No. 26 tahun 2007 and PP No.26 tahun 2008 which are the substitute of UU No. 24 Tahun 1992 dan PP No. 47 Tahun 1997. There are some policies that change between this laws such as; criteria and determination of development of spatial structural area, spatial pattern, mainstay area, national strategic area, terms of control, etc. These plannings will affect landuse and landcover changing for the following 20 years.

Those evaluations are brought on purpose to give information about quantity of landcover that change in each city or regency in East Java, especially for green area
which turn into settlement. Evaluation is done by using overlay method and Geographic Information System.

The Data that are used in this research are Regional Planning Maps (RTRWp) of East Java 2009 – 2029 and Existing Maps of East Java at 2009. The Result of landcover alterational evaluation shows that the amount of green area that’s changed into settlement in East Java is about 405,334 Km² from 47,936,759 Km² of total area or about 0.846%. The most altered areas are occured on rice field class and dry field class. It’s about 185,5087 Km² and 170,1525 Km². And the city or regency that have the largest changing area are Tuban Regency about 75,6328 Km and Gresik Regency 51,9818 Km².

Keywords : Regional Planning (RTRWp) of East Java , Landcover ,Geographic Information System.